

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	3	("20030000086"   "4419971").PN.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 14:11
S3	1	("6182629").PN.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 14:13
S4	1180	123/193.2.ccls. or 29/888.061.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 15:57
S5	6219	((cylinder near4 (sleeve or liner)) same (undercut or segment or project\$3 or elevat\$3 or thickness or var\$4 or constant or depth))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 16:00
S6	224	S4 and S5	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 16:00
S7	17	("3885959"   "4155756"   "4297976"   "4808374").PN. OR ("4959276").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:30
S8	19	("1896098"   "2126089"   "3112541"   "3276082"   "4023613"   "4903652"   "5005469").PN. OR ("5291862").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:43
S9	7	("3165983"   "4221196"   "5291862"   "5749331"   "6123052"   "6298818").PN. OR ("6920859").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:44
S10	13	("3165983"   "5189992"   "5291862"   "6123052").PN. OR ("6298818").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:44
S11	11	("3382858"   "3641882"   "4153983"   "4505234"   "4905642"   "4936262"   "5562073"   "5749331"   "6123052"   "6298818").PN. OR ("7273029").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:45
S12	10	((("5537969") or ("5251578") or ("5207189") or ("5207188") or ("5199390") or ("5189992") or ("5176113") or ("5005469") or ("4983652") or ("1321792")).PN.	US-PGPUB; USPAT	OR	OFF	2008/10/23 16:47
S13	6	("2810378").PN. OR ("5207188").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:47
S14	12	("3659569"   "3672263"   "4202310"   "4221196"   "4640240"   "4794884"   "5086733").PN. OR ("5189992").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:49
S15	7	("4469060"   "4903652"   "5291862"   "5357921"   "5537969").PN. OR ("5732671").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:57
S16	23	("0991404"   "1347476"   "3620137"   "4370788"   "4393821"   "4495907"   "5005469"   "5255433"   "5291862"   "5315970"   "5320158"   "5363821"   "5419037").PN. OR ("5566450").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:03
S17	8	("3768290"   "5894753"   "5941118"   "6123052"   "6178802"   "6519848"   "6640765").PN. OR ("6748655").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:17

S18	50	US-5522686-\$.DID. OR US-20050082190-\$.DID. OR US-4280597-\$.DID. OR US-4484678-\$.DID. OR US-6041559-\$.DID. OR US-6062755-\$.DID. OR US-5863470-\$.DID. OR US-4343753-\$.DID. OR US-4371148-\$.DID. OR US-4865895-\$.DID. OR US-20070209627-\$.DID. OR US-4465040-\$.DID. OR US-4915629-\$.DID. OR US-4606406-\$.DID. OR US-5347347-\$.DID. OR US-5563690-\$.DID. OR US-4915436-\$.DID. OR US-4526410-\$.DID. OR US-4998881-\$.DID. OR US-5299884-\$.DID. OR US-4093413-\$.DID. OR US-4280598-\$.DID. OR US-4285178-\$.DID. OR US-4454676-\$.DID. OR US-4534531-\$.DID. OR US-4607821-\$.DID. OR US-4617070-\$.DID. OR US-4941463-\$.DID. OR US-5000612-\$.DID. OR US-5014572-\$.DID. OR US-5022461-\$.DID. OR US-5176497-\$.DID. OR US-5244236-\$.DID. OR US-5291862-\$.DID. OR US-5474525-\$.DID. OR US-5505499-\$.DID. OR US-5562073-\$.DID. OR US-5645271-\$.DID. OR US-5661852-\$.DID. OR US-5876152-\$.DID. OR US-5882043-\$.DID. OR US-6014403-\$.DID. OR US-6086111-\$.DID. OR US-6315745-\$.DID. OR US-20010026036-\$.DID. OR US-4611933-\$.DID. OR US-4366809-\$.DID. OR US-4771738-\$.DID. OR US-5452834-\$.DID. OR US-5731656-\$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:45
S19	7	S4 and (arc\$1shaped)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 17:52
S20	15	S4 and elliptical	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 17:58
S21	184	S4 and (project\$3 or under\$1cut)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:00
S22	16	S21 and (gravity or aluminum\$1silicon or (spin near3 cast\$3))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:02
S23	899	123/193.2.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:17
S24	22	S23 and ((liner or sleeve) same (arc or elliptical or ellipse or oval or non\$1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:19
S25	14	29/888.061.ccls. AND ((liner or sleeve) same (arc or elliptical or ellipse or oval or non\$1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:21
S26	40	29/888.061.ccls. AND ((arc or elliptical or ellipse or oval or non\$1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:22
S27	331	29/888.061.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/24 12:34

S28	16	("4068645"   "4297976"   "4846116"   "5255433"   "5303682"   "5387272"   "5421397"   "5462108"   "5537969").PN. OR ("5860469").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/24 15:13
S29	37	(cylinder same liner) and undercut and arc	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 13:27
S30	28	(cylinder near3 (sleeve or liner)) same ((varied or variable) near4 (thickness or region))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 14:01
S31	37	("1347476"   "2144928"   "2737171"   "2855911"   "3069209"   "3073290"   "3215131"   "3853099"   "3903951"   "4003422"   "4224727").PN. OR ("4630345").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 15:46
S32	285	(cylinder with (liner or sleeve)) same (oval \$1shape\$1 or oval or non\$1circular or ellipse or ellitital)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 16:09
S33	23	(elliptical or ellipse or non\$1circular or oval) same liner same cylinder same engine	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 17:27
S34	14	("2974541"   "3315573"   "3568573"   "4399783"   "4562799"   "4582028"   "4616603"   "4796572"   "5768780"   "5927243"   "6123052"   "6182629").PN. OR ("6557513").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 17:43
S35	15	("1958948"   "2007871"   "2131228"   "3179053"   "3737258"   "4490098"   "4811716"   "5209208"   "Re20573").PN. OR ("5322423").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 17:54
S36	1	("5929405").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 09:51
S37	1	("6182629").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 09:54
S38	9	("3165983"   "3276082"   "5829405"   "5958520"   "6044820").PN. OR ("6182629").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 09:54
S39	2	(cylinder near3 (sleeve or liner)) same (rough\$1cast\$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 10:06
S40	11	("2783748"   "3046952"   "4385595").PN. OR ("4616603").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:31
S41	22	("3403661"   "3818878"   "3973429"   "4034723"   "4046114"   "4244330"   "4305348"   "4440118"   "4562799"   "4616603"   "4638769"   "4844030"   "4867118"   "5048468"   "5150668"   "5251579"   "5299538"   "5343837"   "5575251"   "5752480").PN. OR ("6328001").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:32

S42	87	("1226820"   "1396890"   "1420684"   "1607265"   "1643645"   "1665192"   "2010183"   "2037354"   "2078499"   "2148639"   "2338183"   "2405847"   "2511823"   "2635591"   "2748757"   "2783749"   "2851020"   "2855910"   "2951472"   "3086505"   "3315573"   "3400695"   "3403661"   "3418993"   "3568573"   "3618575"   "3628427"   "3653369"   "3714931"   "3745980"   "3853099"   "3882842"   "3996913"   "4082068"   "4095803"   "4131093"   "4147140"   "4237847"   "4244330"   "4284037"   "4294203"   "4305348"   "4369627"   "4399783"   "4474144"   "4494492"   "4505234"   "4523555"   "4562799"   "4588309"   "4601265"   "4638769"   "4759317"   "4791891"   "4926801"   "5867119").PN. OR ("5251579").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:34
S43	18	("3800751"   "4187767"   "4244330"   "4284037"   "4294203"   "4926801"   "5176113"   "5189992"   "5199390"   "5207188"   "5207189"   "5211137"   "5233947"   "5251578"   "5251579"   "5386805"   "5402754").PN. OR ("5979374").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:36
S44	69	(US-20030000086-\$ or US-20030056645-\$ or US-20030192501-\$ or US- 20050150476-\$ or US-20050161014-\$ or US-20070209627-\$ or US-20060156917-\$ or US-20020162219-\$).did. or (US- 4419971-\$ or US-3657078-\$ or US- 4155756-\$ or US-4258084-\$ or US- 4616603-\$ or US-4706417-\$ or US- 4770133-\$ or US-4903652-\$ or US- 4921734-\$ or US-4959276-\$ or US- 5005469-\$ or US-5291862-\$ or US- 6920859-\$ or US-6298818-\$ or US- 7273029-\$ or US-6123052-\$ or US- 5537969-\$ or US-5207188-\$ or US- 2810378-\$ or US-5189992-\$ or US- 5086733-\$ or US-4905642-\$ or US- 6988480-\$ or US-5732671-\$ or US- 5566450-\$ or US-5671532-\$).did. or (US- 6640765-\$ or US-6748655-\$ or US- 6802121-\$ or US-6637108-\$ or US- 7398596-\$ or US-5860469-\$ or US- 6557513-\$ or US-6182629-\$ or US- 5322423-\$ or US-5142863-\$ or US- 5033427-\$ or US-4630345-\$ or US- 4562799-\$ or US-3695150-\$ or US- 6328001-\$ or US-5251579-\$ or US- 6799541-\$ or US-6357400-\$ or US- 5979374-\$).did. or (US-2810378-\$).did. or (GB-2168632-\$ or EP-554575-\$ or CH- 685575-\$).did. or (JP-61155644-\$ or JP- 02241953-\$ or JP-03047642-\$ or JP- 61142350-\$ or JP-04076252-\$ or JP- 62265453-\$ or JP-62261648-\$ or JP- 61085557-\$ or JP-60196235-\$ or JP- 60096788-\$ or JP-59194061-\$ or JP-	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/28 14:25

		56029036-\$.did.				
S47	0	S44 and (spin\$1cast\$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:05
S48	16	(liner or sleeve) same spin\$1cast\$3	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:06
S49	1	("5980792").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 15:07
S50	112	123/41.28	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S51	349	123/41.29	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S52	86	123/41.67	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S53	339	123/41.72	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S54	241	123/41.79	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S55	80	123/41.81	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S56	25	S50 and (liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:53
S57	26	S51 and (liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 16:06
S66	44	FUGANTI.I.N.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 10:38
S67	6	liner same spin\$1cast\$3	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 11:40
S68	1	("6675750").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/29 11:44
S69	286	(123/41.84).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/29 11:48
S70	9	("3481316"   "4706616"   "4794884"   "4926801"   "5199390"   "5207189"   "6357400").PN. OR ("6675750").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/29 13:09
S71	1	("20030000086").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/29 13:55
S72	1	"20030084567"	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 14:35
S73	11803	(cylinder near2 sleeve)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:45

S74	473	S73 and "29"/.cls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:46
S75	239	S74 and (projection or flatt\$5 or segment or region or rough\$4)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:47
S76	9	S75 and crankcase	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:47
S77	0	22/888.061,888.06.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S78	696	29/888.061,888.06.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S79	196	S78 and (cylinder near (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S80	2499	123/193.1,193.2,193.3,41.84.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S81	611	S80 and (cylinder near (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S82	282	S80 and (cylinder near2 (liner or sleeve)). ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S83	2	"US 20070209627"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2009/03/31 10:01
S84	0	("2005/0150476").URPN.	USPAT	ADJ	ON	2009/03/31 10:42
S85	520	123/41.74.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S86	6	S85 and (cylinder near2 (liner or sleeve)). ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S87	83	S85 and (cylinder near2 (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S88	2	((("3561104") or ("6468673")).PN.	US-PGPUB; USPAT	OR	OFF	2009/03/31 11:29
S89	3	("4005991"   "6286210").PN. OR ("6468673").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/31 11:32
S90	531	428/600.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:36
S91	1	S90 and ((cast near2 iron) same (insert or liner))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:37
S92	28	S90 and (insert or liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:37

**3/ 31/ 2009 6:22:21 PM**

**C:\ Documents and Settings\ hnguyen34\ My Documents\ EAST\ Workspaces\ 10589792\_Cylinder Sleeve  
with shapes of sleeve, casting methods.wsp**